AE-234

Infrared Illuminator Enclosure

Installation Guide

Rev. 1.0

CAUTION:
TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE COVER.
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

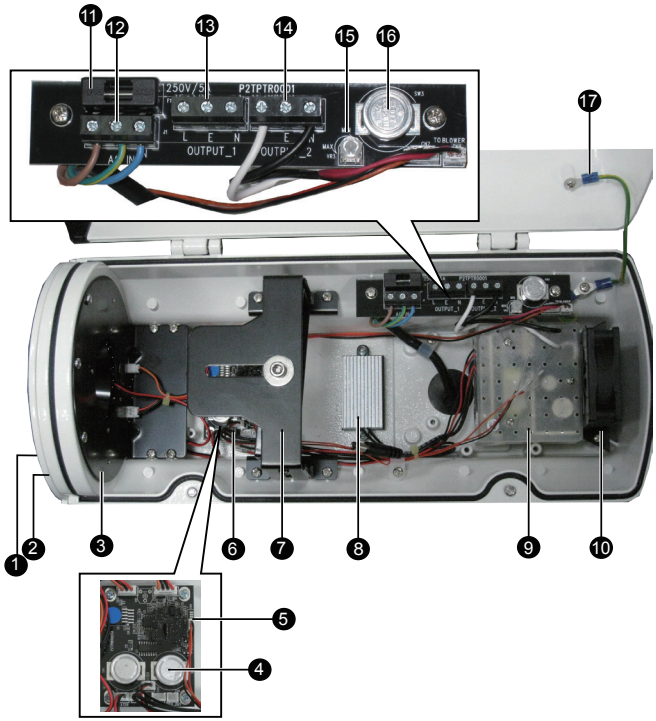
UNPACKING:
Unpack carefully. Electronic components can be damaged if improperly handled or dropped. If an item appears having been damaged in shipment, place it properly in its carton and notify the shipper.

1. **Read and follow Instructions: All operating and user instructions should be read and followed before the unit is to be operated.**
2. **Electrical Connections: Only a qualified electrician allow to make electrical connections.**

I Specifications

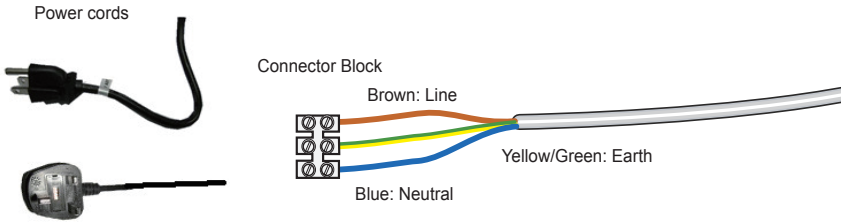
Model Name	AE-234
LED Quantity	12 IR LEDs
IR Light Distance Approach To	80 ~ 100M
IR Light ON/OFF	Photo Diode Sensor Control
Infrared Bean Angle	30° or 45 °
Power Input	AC90~240V (+/-10%)
Rating Current	5 A
Heater Control	18°C (ON) / 28°C (OFF) & 0°C (ON) / 10°C (OFF)
Blower Control	35°C (ON) / 25°C (OFF)
Operation Temp.	-20°C ~ +50°C
Environmental Storage Temp.	-40°C ~ +50°C
Protection Level	IK-10 rated, IP68 or IP44 with ventilation hole
Window	Polycarbonate, 3mm thickness
Mounting Bracket	Fully-cable Management
Construction	Die-Cast Aluminum Alloy
Coating	Ivory Powder & Stove Finish
Dimensions	425 (L) x 160 (W) x 165 (H) mm
Camera Space	275 (L) x 90 (W) x 100 (H) mm
Net Weight	5530 gm

II Physical description

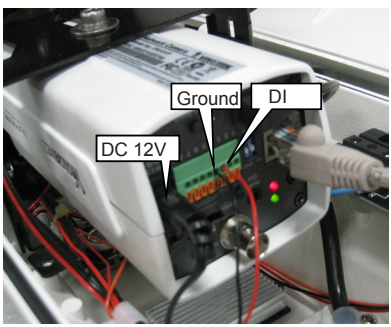


1.	Lens cap with heater	2.	IR LEDs behind temper glass
3.	IR board and IR board bracket	4.	Thermostat switch
5.	Day/Night trigger: controls the color/mono mode switch for D/N cameras	6.	Universal IR control circuit board: to control color/mono switching and IR on/off synchronization
7.	Camera bracket	8.	Heater
9.	Power Supply Unit: AC90~240V power input, DC12V output	10.	Blower and blower bracket
11.	Fuse holder: with a 250V/5A fuse	12.	AC IN terminal block: AC 90~240V external power input.
13.	OUTPUT_1 spare terminal block: for AC 24V or AC 90~240V camera use	14.	OUTPUT_2: to power supply unit
15.	VR: to adjust the Infrared LED activation level	16.	Thermostat switch: turn on at 35°C and turn off at 25°C for blower
17.	Ground wire: to top cover		

AC input wiring: connect power lines to an external power cord.



III Interface Connections



Once a camera is installed, you can connect the 12V DC phone jack connector to power the camera.

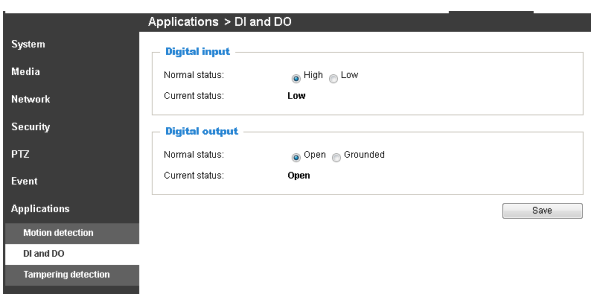
Since the housing comes with a light sensor, which controls when to turn into the night mode and light the IR LEDs. Connect the red or orange wire to the DI pin on the terminal block, and the black wire to the Ground pin.

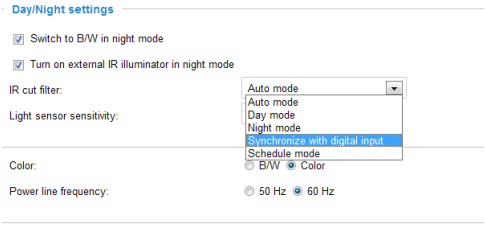
The following determines which wire (Red or Orange) should be connected to the DI pin.

Red: If IR trigger signal is on the high position (+5V DC), connect the Red and Black wires.

Orange: If IR trigger signal is on the Low position (+0V DC), connect the Orange and Black wires.

You should check the DI and Do settings on a web console in **Configuration** > **Applications** > **DI and DO**. For example, if you connect the Red line to the DI, its normal status should be High.





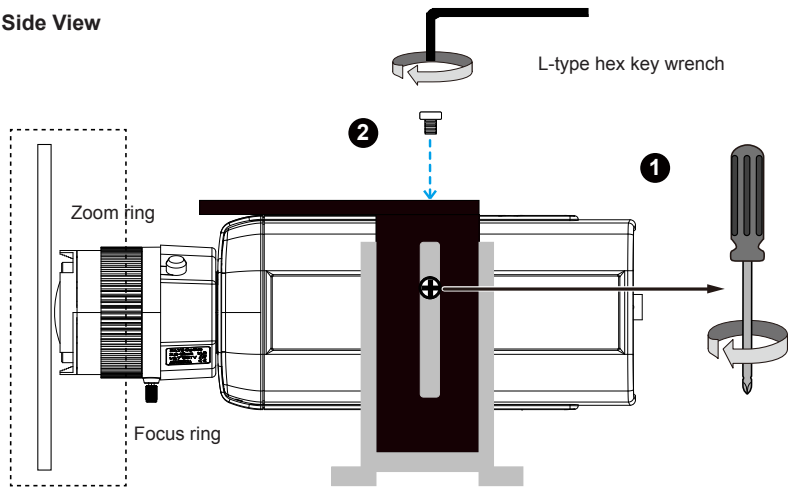
Configure the camera's IR cut filter setting (if your camera comes with it) to "Synchronize with digital input."

The configuration option can be found in **Configuration** > **Media** > **Image** > **General settings** > **Day/Night settings** > **IR cut filter**.

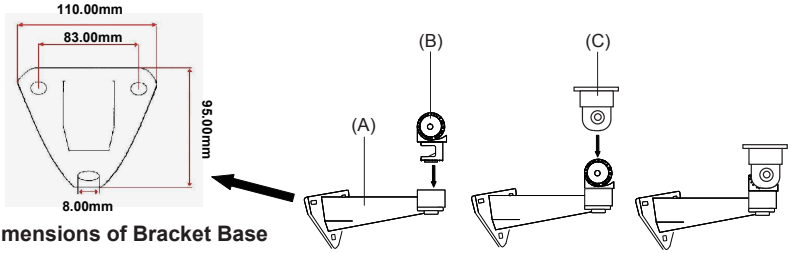
IV Hardware Installation

1. Loosen two screws on both sides of the camera bracket, and then adjust the position of camera bracket by sliding it up and down.
2. Use the supplied L-type hex key wrench to fix the camera on the camera bracket.
3. Connect the power cable and Ethernet cable to the camera.

Side View

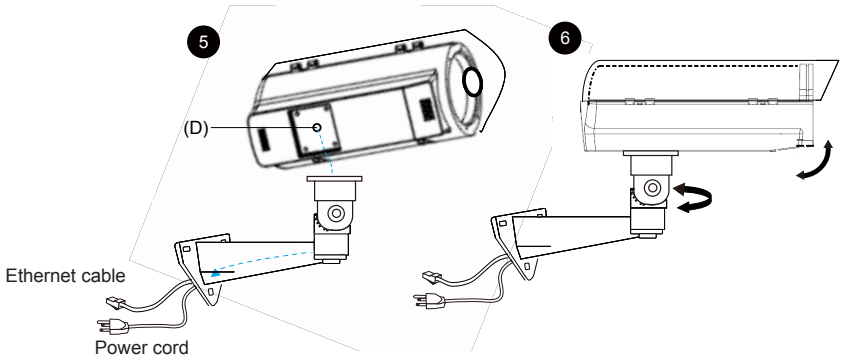
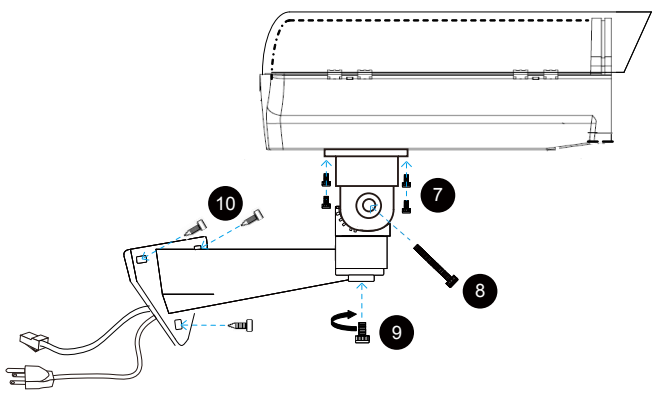


4. Assemble the mounting bracket arm (A).(B).(C).



Dimensions of Bracket Base

5. Feed the Ethernet cable and power cord from hole (D) on the bottom of the enclosure through the mounting bracket arm.
6. Pan and tilt the enclosure to aim at the monitored area.



7. Mount the enclosure to the mounting plate (C) with supplied four screws.
8. Use the supplied long screw to secure (C) with (B).
9. Use the supplied big screw to secure (B) with (A).
10. Use the supplied three screws to mount the enclosure to a desired location.